

October 15, 2011

Mr. David Young  
California Regional Water Quality Control Board  
Los Angeles Region  
Site Cleanup Program  
320 West 4<sup>th</sup> Street, Suite 200  
Los Angeles, California 90013

Third Quarterly Groundwater Well Monitoring Report 2011  
**Continental Heat Treating**  
10643 Norwalk Boulevard, Santa Fe Springs, California  
(Site Id. No. 204GW00, SCP No. 1057)

Dear Mr. Young:

Fero Environmental Engineering, Inc. (Fero) conducted the required quarterly groundwater monitoring at the subject site on September 23, 2011. During the sampling event, Fero gauged the elevation of groundwater in the three wells on the site (MW1-MW3) using an electronic gauging device, which allowed a monitoring accuracy of 0.01 foot. At each of the wells, the depth to groundwater measurements were made from the water surface to a survey mark etched in the casing. Gauging data for this and for previous monitoring events are summarized in Table 1. The well locations are depicted on the enclosed Figure 1.

The groundwater elevations were used to determine a tilted planar surface which represents the local groundwater table and this surface was superimposed onto the base map in Figure 1. The slope of the groundwater table indicates a flow direction of slightly west of south under a gradient of approximately 0.0077 ft/ft.

Following gauging and prior to sampling, all of the subject site groundwater monitoring wells were purged of 25 gallons of water, the volume of which was based upon the volume of freestanding water in the wells and the observed stabilization of physical/chemical parameters during purging. The monitoring wells were purged until pH, color, conductivity, and temperature had stabilized. The monitoring wells were purged with a variable speed 120-volt AC powered two stage centrifugal Stainless Steel purge pump with discharge through 1/2 inch PVC and Teflon tubing. Groundwater was pumped from the monitoring wells at a rate of approximately 1 gallon per minute. Physical and chemical purge monitoring parameters were measured in the field at the discharge line of the pump. Well purging data is attached hereto as Attachment A.

Subsequent to purging each well, the pump rate was reduced to approximately 100 ml/min whereupon a representative sample of groundwater was collected from the discharge line using 40 ml.

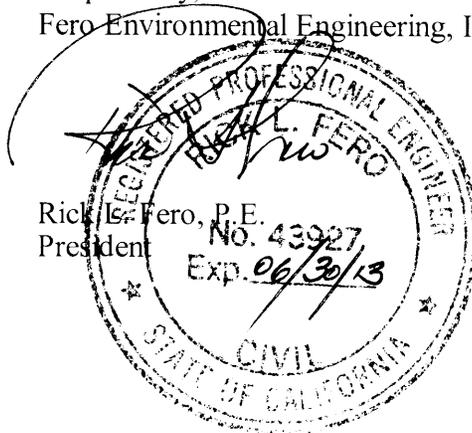
glass sample vials. Teflon lined caps were secured tightly onto the 40 ml vials and each was visually inspected to assure that zero headspace had been achieved. The sample vials containing groundwater from each well were immediately placed in an ice chest containing ice and transported for analysis to Enviro-Chem, Inc. in Pomona accompanied by appropriate Chain-of-Custody documentation.

The groundwater samples were analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260B. Groundwater VOC analytical results from this and from previous events are summarized in Table 2. Selected organics concentrations are included on Figure 1. Lab analytical reports with associated chain-of-custody documentation are attached hereto as Attachment B.

The next quarterly sampling is scheduled for December 2011. Should you have any questions regarding the content of this Quarterly Groundwater Monitoring Report, please do not hesitate to call the undersigned at (714) 256-2737.

Respectfully,  
Fero Environmental Engineering, Inc.

Rick L. Fero, P.E.  
President



**Table 1**  
 Summary of Groundwater Elevations  
**Continental Heat Treating**  
 10643 Norwalk Boulevard, Santa Fe Springs, California  
 (Site Id. No. 204GW00, SCP No. 1057)

Well	Casing Elevation (ft MSL)	Depth to Casing Bottom (ft)	3/29/11		6/15/11	
			Depth to Water (ft)	Groundwater Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (MSL)
MW1	137.07	119	97.16	39.91	94.50	42.57
MW2	137.43	120	96.45	40.98	93.74	43.69
MW3	137.71	119	96.42	41.29	93.94	43.77

**Table 1 (cont)**  
 Summary of Groundwater Elevations  
**Continental Heat Treating**  
 10643 Norwalk Boulevard, Santa Fe Springs, California  
 (Site Id. No. 204GW00, SCP No. 1057)

Well	Casing Elevation (ft MSL)	Depth to Casing Bottom (ft)	9/20/11		12/11	
			Depth to Water (ft)	Groundwater Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (MSL)
MW1	137.07	119	91.81	45.26		
MW2	137.43	120	91.06	46.37		
MW3	137.71	119	91.12	46.59		

**Table 2**  
**Summary of Groundwater Analyses**  
**Continental Heat Treating**  
10643 Norwalk Boulevard, Santa Fe Springs, California  
(Site Id. No. 204GW00, SCP No. 1057)  
(µg/L; DL – 0.5 µg/L)

Well	Date	Ben	Chl	1,4- DCB	1,1- DCA	cis-1,2- DCE	1,1,2- DCE	1,2- DCA	1,1- DCE	HCB	NAP	1,1,2,2- TCA	PCE	1,2,3- ICB	1,2,4- ICB	ICF	TFM	VC
MW1	8/20/10	ND	0.97	ND	17.3	12.2	ND	113	224	ND	ND	ND	184	ND	ND	154	2.79	5.96
	3/29/11	ND	1.02	ND	17.7	600	14.9	ND	184	ND	ND	ND	210	ND	ND	170	5.54	27.8
	6/15/11	ND	1.50	ND	14.1	85.1	2.06	ND	117	ND	ND	ND	228	ND	ND	167	5.51	3.13
	9/23/11	ND	4.20	ND	25.3	118	2.14	ND	191	ND	ND	ND	182	ND	ND	164	13.2	3.50
MW2	8/20/10	ND	1.71	0.78	21.8	59.6	0.76	5.43	126	1.14	2.47	0.92	235	2.72	1.24	178	9.49	0.89
	3/29/11	ND	1.89	ND	22.8	55.1	ND	2.74	161	1.14	ND	ND	214	ND	ND	158	10.0	0.53
	6/15/11	ND	3.07	ND	24.2	85.3	1.53	4.83	149	ND	ND	ND	338	ND	ND	172	13.1	3.09
	9/23/11	ND	5.08	ND	28.1	100	2.09	5.88	177	ND	ND	ND	245	ND	ND	161	21.3	4.01
MW3	8/20/10	4.50	ND	ND	6.19	38.9	4.13	ND	57.1	1.18	2.43	ND	56.9	3.26	1.29	160	1.22	ND
	3/29/11	3.17	ND	ND	11.7	49.0	4.41	ND	185	ND	ND	ND	82.2	ND	ND	200	4.75	3.78
	6/15/11	1.01	0.91	ND	12.1	41.8	11.2	ND	124	ND	ND	ND	151	ND	ND	149	5.26	1.71
	9/23/11	ND	1.30	ND	14.3	43.6	13.6	ND	146	ND	ND	ND	120	ND	ND	130	7.45	1.32

DL - detection limit, ND = Not Detected at DL, Ben - Benzene, Chl - Chloroform, DCB - Dichlorobenzene, DCA - Dichloroethane, DCE - Dichloroethene, HCB - Hexachlorobutadiene, NAP - Naphthalene, TCA - Trichloroethane, TCB - Trichlorobenzene, TCE - Trichloroethene, TFM - Trichlorofluoromethane, VC - Vinyl Chloride

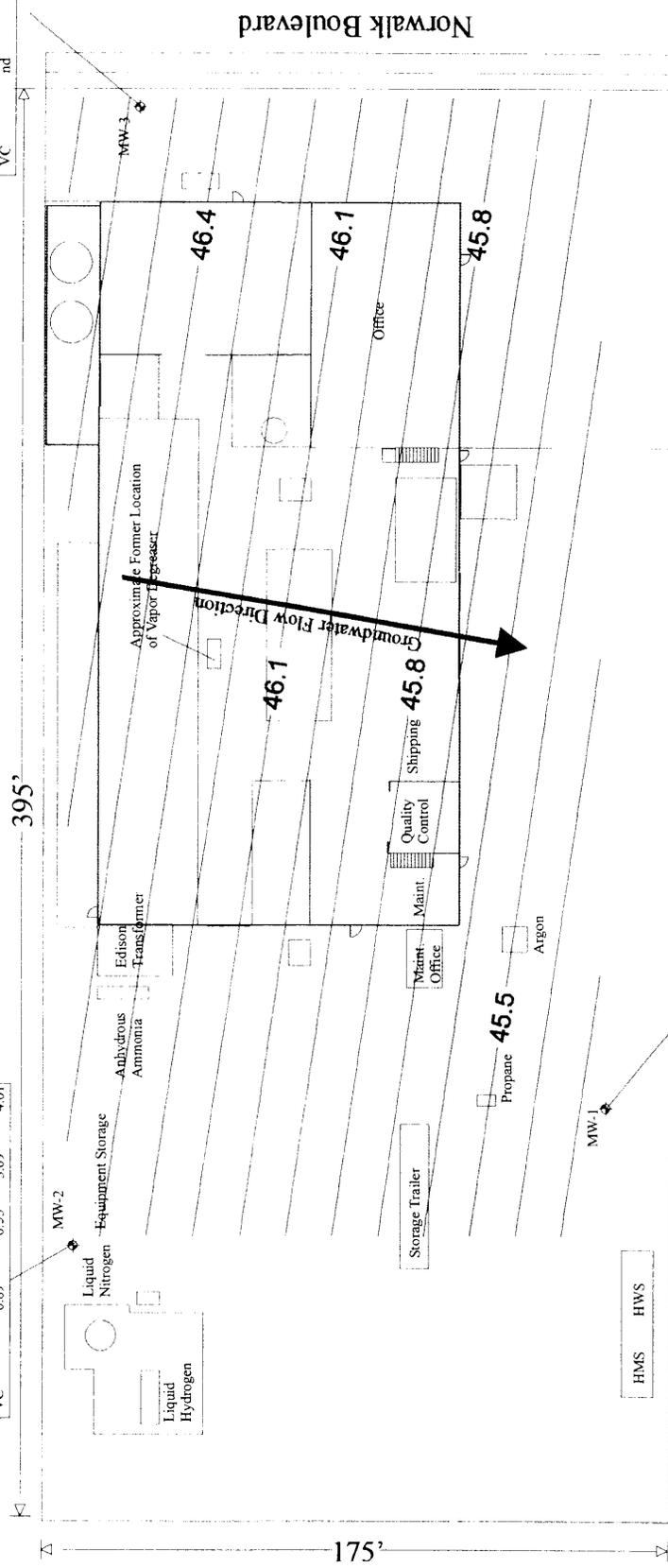
Table 3

Continental Heat Treating  
 10643 South Norwalk Boulevard  
 Santa Fe Springs, CA  
 Monitoring Well Details

	MW-1	MW-2	MW-3
installation date	8/3/2010	8/4/2010	8/5/2010
elevation (ft MSL)	137.07	137.43	137.71
depth of boring (ft)	120	120	120
casing diameter (in)	2	2	2
depth to top of screen (ft)	89	90	89
depth to bottom of screen (ft)	119	120	119
vapor probe depths (ft)	n/a	n/a	n/a

	8/10	3/11	6/11	9/11
1,1-DCA	218	228	242	28.1
cis-1,2-DCE	59.6	55.1	85.3	100
1,2-DCA	5.43	2.74	4.83	5.88
1,1-DCE	126	161	149	177
PCE	235	214	338	245
TCE	178	158	172	161
VC	0.89	0.53	3.09	4.01

	8/10	3/11	6/11	9/11
1,1-DCA	6.19	11.7	12.1	14.3
cis-1,2-DCE	38.9	49.0	41.8	43.6
1,2-DCA	nd	nd	nd	nd
1,1-DCE	57.1	185	124	146
PCE	56.9	82.2	151	120
TCE	160	200	149	130
VC	nd	3.78	1.71	1.32



	8/10	3/11	6/11	9/11
1,1-DCA	17.3	17.7	14.1	25.3
cis-1,2-DCE	12.2	600	85.1	118
1,2-DCA	113	nd	nd	nd
1,1-DCE	224	184	117	191
PCE	184	210	228	182
TCE	154	170	167	164
VC	5.96	27.8	3.13	3.50

50'



**Legend**

◆ - Groundwater Monitoring Well



**FERO ENGINEERING**  
ENVIRONMENTAL ENGINEERING & CONSULTING

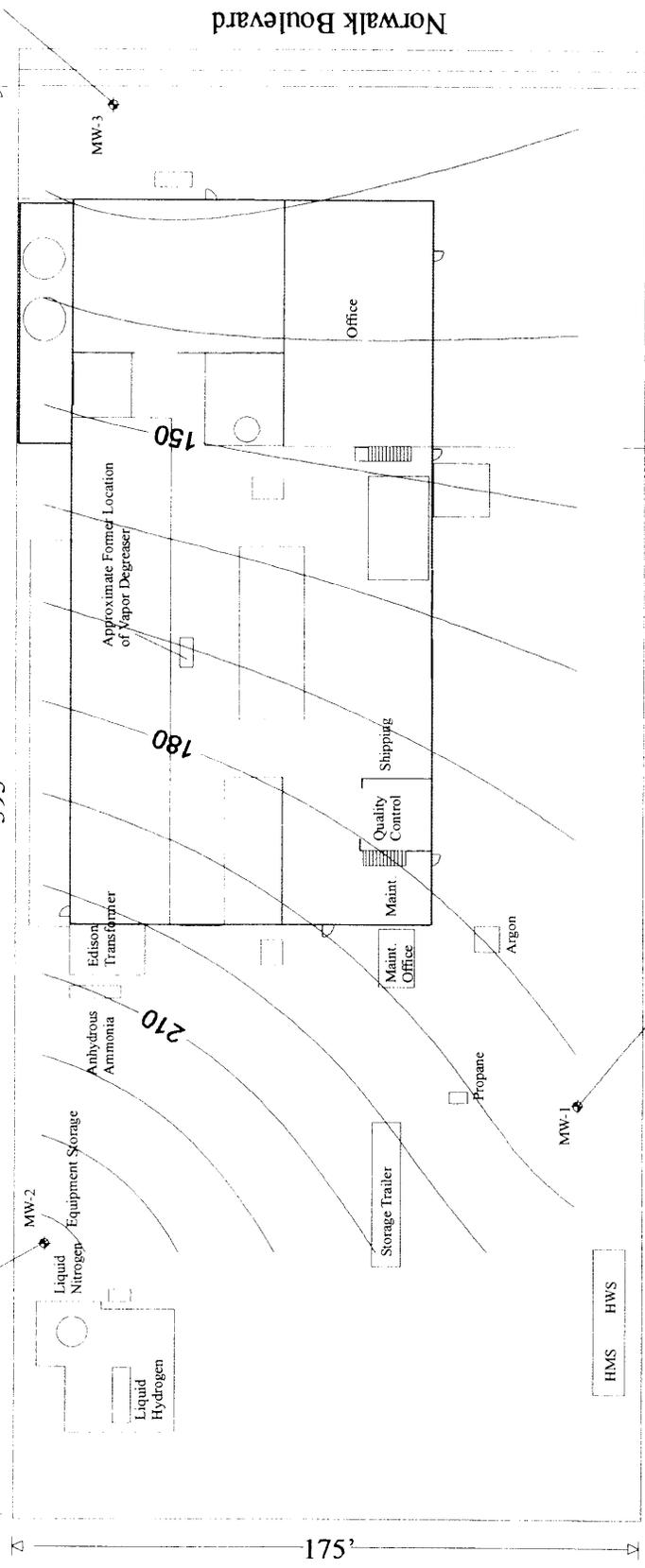
**Groundwater Well Locations & Flow Contours (9/23/11)**  
**Continental Heat Treating, Inc.**

10643 South Norwalk Boulevard  
Santa Fe Springs, California

Base Map Source: Trilogy Regulatory Services

	8/10	3/11	6/11	9/11
1,1-DCA	218	22.8	24.2	28.1
cis-1,2-DCE	59.6	55.1	85.3	100
1,2-DCA	5.43	2.74	4.83	5.88
1,1-DCE	126	161	149	177
PCE	235	214	338	245
TCE	178	158	172	161
VC	0.89	0.53	3.09	4.01

	8/10	3/11	6/11	9/11
1,1-DCA	6.19	11.7	12.1	14.3
cis-1,2-DCE	38.9	49.0	41.8	43.6
1,2-DCA	nd	nd	nd	nd
1,1-DCE	57.1	185	124	146
PCE	56.9	82.2	151	120
TCE	160	200	149	130
VC	nd	3.78	1.71	1.32



	8/10	3/11	6/11	9/11
1,1-DCA	17.3	17.7	14.1	25.3
cis-1,2-DCE	12.2	600	85.1	118
1,2-DCA	113	nd	nd	nd
1,1-DCE	224	184	117	191
PCE	184	210	228	182
TCE	154	170	167	164
VC	5.96	27.8	3.13	3.50

**Legend**

◆ - Groundwater Monitoring Well



**FERO ENGINEERING**  
ENVIRONMENTAL ENGINEERING & CONSULTING

**PCE Isoconcentration Contours (9/23/11)**  
**Continental Heat Treating, Inc.**

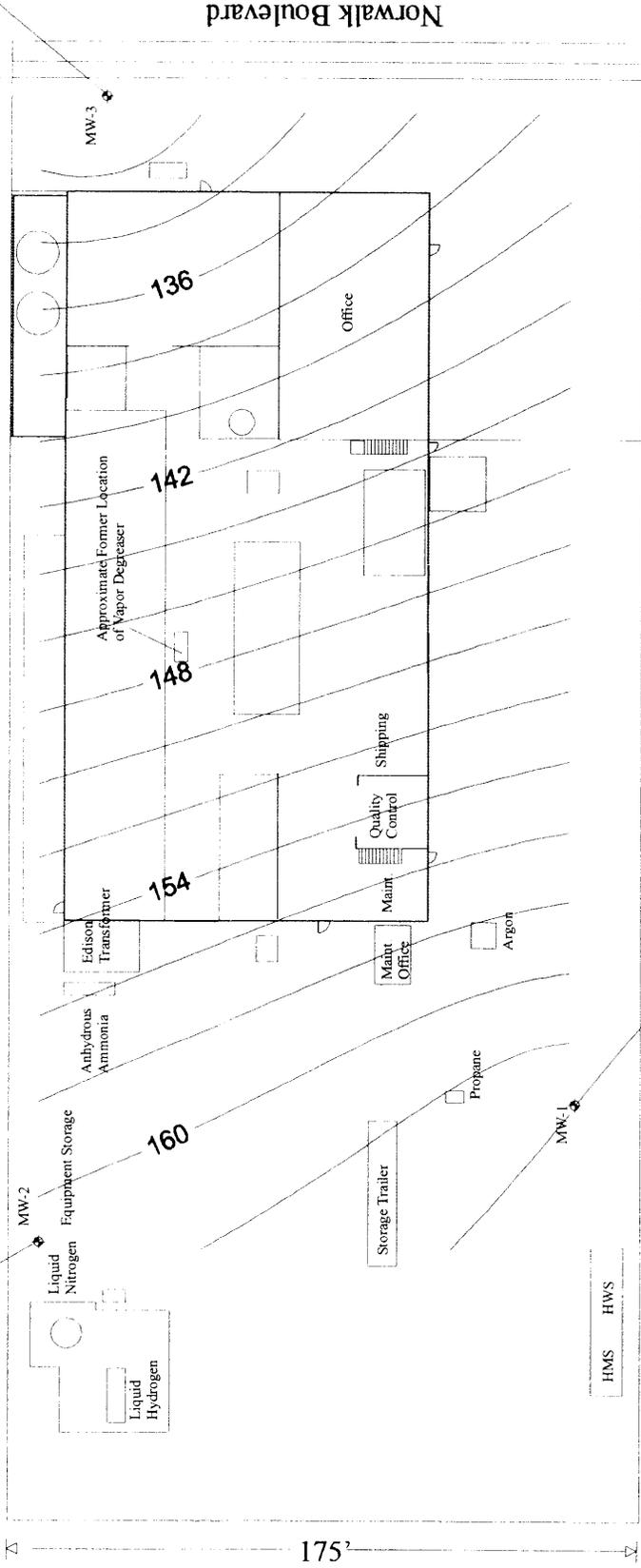
10643 South Norwalk Boulevard  
Santa Fe Springs, California

Base Map Source: Trilogy Regulatory Services

	8/10	3/11	6/11	9/11
1,1-DCA	619	11.7	32.1	14.3
cis-1,2-DCE	38.9	49.0	41.8	43.6
1,2-DCA	nd	nd	nd	nd
1,1-DCE	57.1	185	124	146
PCE	56.9	82.2	151	120
TCE	160	200	149	130
VC	nd	3.78	1.71	1.32

	8/10	3/11	6/11	9/11
1,1-DCA	21.8	22.8	24.2	28.1
cis-1,2-DCE	59.6	55.1	85.3	100
1,2-DCA	5.43	2.74	4.83	5.88
1,1-DCE	126	161	149	177
PCE	235	214	338	245
TCE	178	158	172	161
VC	0.89	0.53	3.09	4.01

	8/10	3/11	6/11	9/11
1,1-DCA	17.3	17.7	14.1	25.3
cis-1,2-DCE	12.2	600	85.1	118
1,2-DCA	113	nd	nd	nd
1,1-DCE	224	184	117	191
PCE	184	210	228	182
TCE	154	170	167	164
VC	5.96	27.8	3.13	3.50



Norwalk Boulevard

**Legend**

◆ - Groundwater Monitoring Well

**FERO ENGINEERING**  
ENVIRONMENTAL ENGINEERING & CONSULTING

**TCE Isoconcentration Contours (9/23/11)**  
**Continental Heat Treating, Inc.**

10643 South Norwalk Boulevard  
Santa Fe Springs, California

Base Map Source: Trilogy Regulatory Services

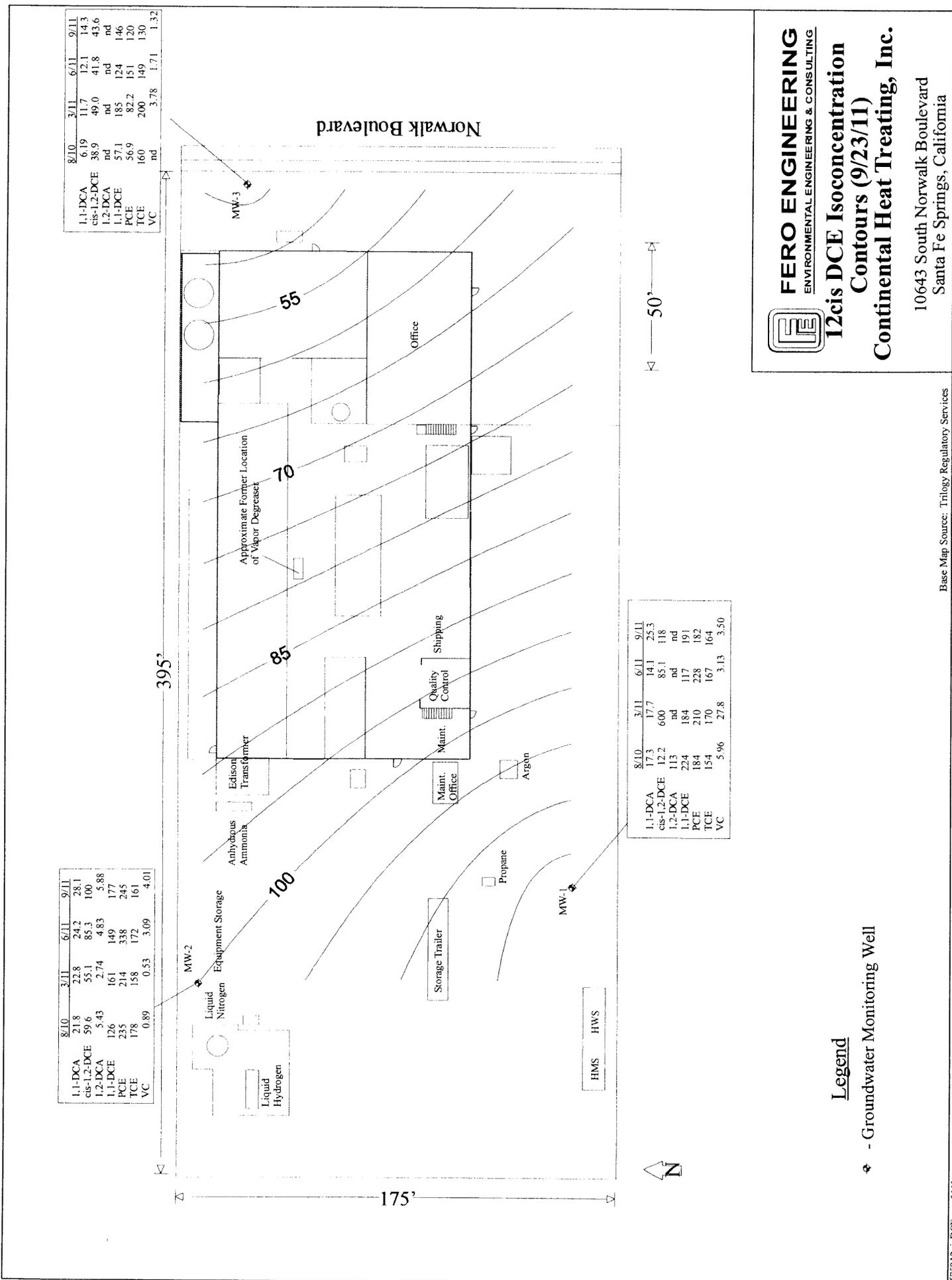
[758TCEcont911]

Figure 3

	8/10	3/11	6/11	9/11
1,1-DCA	21.8	22.8	24.2	28.1
cis-1,2-DCE	59.6	55.1	85.3	100
1,2-DCA	5.43	2.74	4.83	5.88
1,1-DCE	126	161	149	177
PCE	235	214	338	245
TCE	178	158	172	161
VC	0.89	0.53	3.09	4.01

	8/10	3/11	6/11	9/11
1,1-DCA	6.19	11.7	12.1	14.3
cis-1,2-DCE	38.9	49.0	41.8	43.6
1,2-DCA	nd	nd	nd	nd
1,1-DCE	57.1	185	124	146
PCE	56.9	82.2	151	120
TCE	160	200	149	130
VC	nd	3.78	1.71	1.32

	8/10	3/11	6/11	9/11
1,1-DCA	17.3	17.7	14.1	25.3
cis-1,2-DCE	12.2	600	85.1	118
1,2-DCA	113	nd	nd	nd
1,1-DCE	224	184	117	191
PCE	184	210	228	182
TCE	154	170	167	164
VC	5.96	27.8	3.13	3.50



**FERO ENGINEERING**  
 ENVIRONMENTAL ENGINEERING & CONSULTING

**12cis DCE Isoconcentration Contours (9/23/11)**  
**Continental Heat Treating, Inc.**

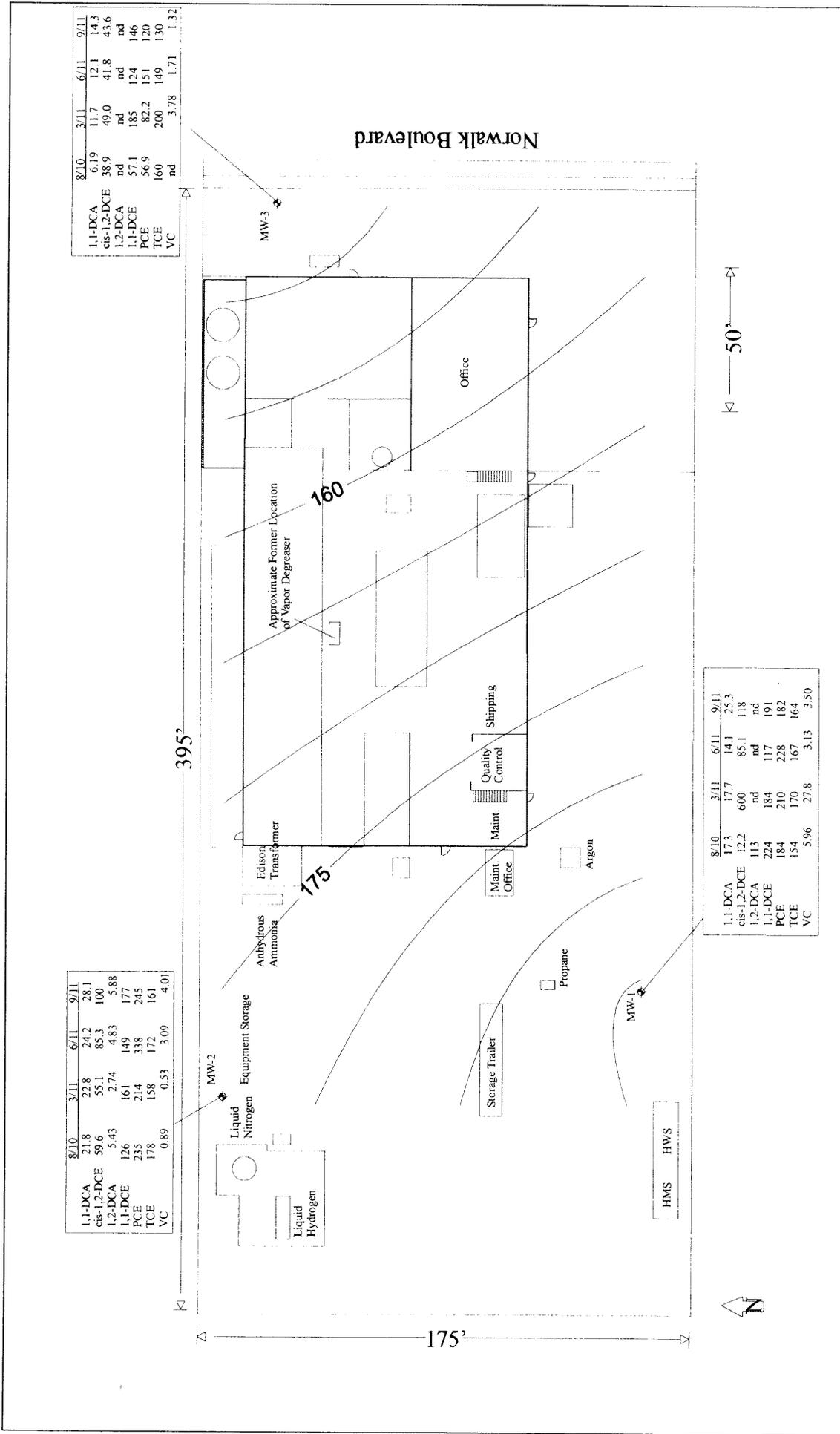
10643 South Norwalk Boulevard  
 Santa Fe Springs, California

**Legend**  
 ♦ - Groundwater Monitoring Well

Base Map Source: Trilogy Regulatory Services

[75812cisDCEcont911]

Figure 4



**FERO ENGINEERING**  
 ENVIRONMENTAL ENGINEERING & CONSULTING

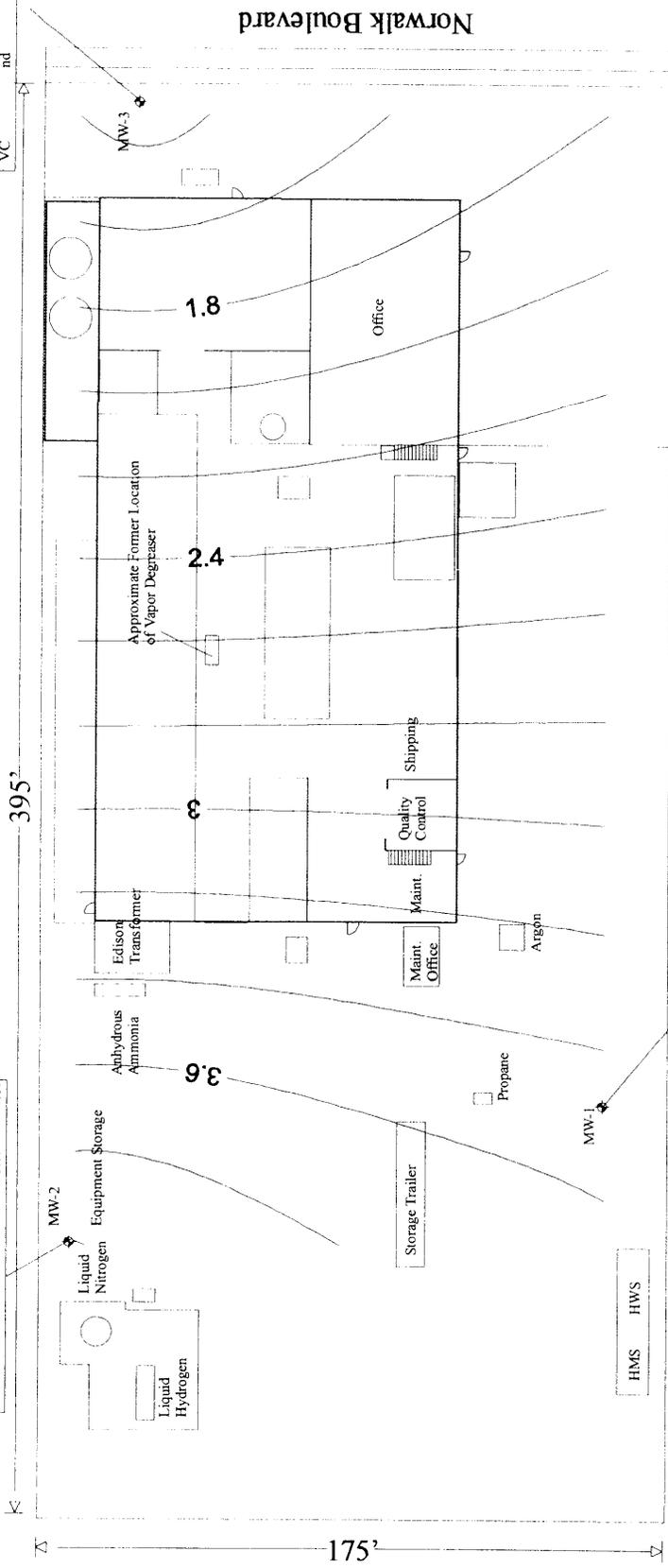
**1,1 DCE Isoconcentration Contours (9/23/11)**  
**Continental Heat Treating, Inc.**

10643 South Norwalk Boulevard  
 Santa Fe Springs, California

**Legend**  
 ♦ - Groundwater Monitoring Well

	8/10	3/11	6/11	9/11
1,1-DCA	21.8	22.8	24.2	28.1
cis-1,2-DCE	59.6	55.1	85.3	100
1,2-DCA	5.43	2.74	4.83	5.88
1,1-DCE	126	161	149	177
PCE	235	214	338	245
TCE	178	158	172	161
VC	0.89	0.53	3.09	4.01

	8/10	3/11	6/11	9/11
1,1-DCA	6.19	11.7	12.1	14.3
cis-1,2-DCE	38.9	49.0	41.8	43.6
1,2-DCA	nd	nd	nd	nd
1,1-DCE	57.1	185	124	146
PCE	56.9	82.2	151	120
TCE	160	200	149	130
VC	nd	3.78	1.71	1.32



	8/10	3/11	6/11	9/11
1,1-DCA	17.3	17.7	14.1	25.3
cis-1,2-DCE	12.2	600	85.1	118
1,2-DCA	11.3	nd	nd	nd
1,1-DCE	224	184	117	191
PCE	184	210	228	182
TCE	154	170	167	164
VC	5.96	27.8	3.13	3.50



**Legend**

◆ - Groundwater Monitoring Well



**VC Isoconcentration  
Contours (9/23/11)**  
**Continental Heat Treating, Inc.**

10643 South Norwalk Boulevard  
Santa Fe Springs, California

Base Map Source: Trilogy Regulatory Services

Figure 6

ATTACHMENT A

Well Purge Report

<b>Groundwater Well Monitoring Data</b>
---

**Site:** Continental Heat Treating                      **Job Number:** 10-0758  
**Well I.D.:** MW1    **Date:** 09/23/11  
**DTGW:** 91.81'

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conduc. (µmho)</u>
5	77.0	7.22	1226
10	76.0	7.09	1239
15	75.3	7.07	1224
20	75.7	7.08	1198
25	76.0	7.09	1196

<b>Groundwater Well Monitoring Data</b>
---

**Site:** Continental Heat Treating      **Job Number:** 10-0758  
**Well I.D.:** MW2      **Date:** 09/23/11  
**DTGW:** 91.06'

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conduc. (µmho)</u>
5	75.7	7.03	1305
10	75.6	7.00	1291
15	75.7	7.01	1292
20	75.6	7.01	1278
25	75.7	7.02	1271

<b>Groundwater Well Monitoring Data</b>
---

**Site:** Continental Heat Treating      **Job Number:** 10-0758  
**Well I.D.:** MW3      **Date:** 09/23/11  
**DTGW:** 91.12'

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conduc. (µmho)</u>
5	75.7	6.91	1381
10	75.9	6.84	1380
15	75.1	6.90	1362
20	75.0	6.90	1351
25	74.6	6.92	1333

**FERO ENGINEERING**  
 ENVIRONMENTAL ENGINEERING & CONSULTING

SUBJECT Continental Heat  
Treating H<sub>2</sub>O now

BY JBP  
 CHKD. BY \_\_\_\_\_  
 SIGNED \_\_\_\_\_

DATE 9/23/11  
 DATE \_\_\_\_\_

SHEET NO. 1 OF \_\_\_\_\_

JOB NO. 10-758

MWS DTW 91.12'

	PH	Cond	Temp
5	6.91	1351	75.7
10	6.90	1350	75.1
15	6.90	1362	75.1
20	6.90	1351	75.0
25	6.92	1333	74.6

~~Total H<sub>2</sub>O~~  
~~Drawn for~~  
~~Removal~~

Sampled @ 12:25  
 CLR

MW 2 DTW 91.06'

BAL	PH	Cond	Temp
5	7.03	1305	75.7
10	7.0	1291	75.6
15	7.01	1292	75.7
20	7.01	1278	<del>76.6</del> 75.6
25	7.02	1271	75.7

Sampled @ 1:00  
 CLR

MW 1 DTW 91.81'

BAL	PH	Cond	Temp
5	7.22	1226	77.0
10	7.09	1239	76.0
15	7.07	1224	75.3
20	7.08	1198	75.7
25	7.09	1196	76.0

Sampled @ 1:30

ATTACHMENT B

Enviro-Chem Laboratory Report

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: ug/L (PPB)
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 09/23/11 DATE RECEIVED: 09/23/11

DATE ANALYZED 09/23/11
DATE EXTRACTED 09/23/11
LAB SAMPLE I.D. 1000241
CLIENT SAMPLE I.D. MW1
EXTRACTION SOLVENT HELIUM GAS/WATER
EXTRACTION METHOD EPA 8260B
DILUTION FACTOR (DF) NONE 10 mLs PURGED:

Table with 4 columns: COMPOUND, CRDL, MB, RESULT. Lists various chemical compounds and their detection results (e.g., ACETONE, BENZENE, BROMOBENZENE, etc.).

CONTINUED

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

**LABORATORY REPORT**

METHOD: EPA 8260B      MATRIX: WATER      REPORTING UNIT:  $\mu\text{G/L (PPB)}$   
 PAGE: 2 OF 3 PAGES      PROJECT: Continental Heat Treating / 10-758

CUSTOMER:      **Fero Environmental Engineering, Inc.**  
 431 W. Lambert Road, Suite 305  
 Brea, CA 92821  
 Tel (714) 256-2737      Fax (714) 256-1505

DATE SAMPLED: 09/23/11      DATE RECEIVED: 09/23/11

DATE ANALYZED      09/23/11  
 DATE EXTRACTED      09/23/11  
 LAB SAMPLE I.D.      11-25-11  
 CLIENT SAMPLE I.D.      MW1  
 EXTRACTION SOLVENT      HEX 100% GAS/WATER  
 EXTRACTION METHOD      EPA 8260B  
 DILUTION FACTOR (DF)      NONE      M.S. PURGED

COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	ND
CIS-1,2-DICHLOROETHENE	0.5	ND	ND
TRANS-1,2-DICHLOROETHENE	0.5	ND	ND
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	ND
1,1-DICHLOROETHENE	0.5	ND	ND
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

CONTINUED

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L (PPB)  
PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.**  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 09/23/11 DATE RECEIVED: 09/23/11

DATE ANALYZED 09/23/11  
DATE EXTRACTED 09/23/11  
LAB SAMPLE I.D. 110923-41  
CLIENT SAMPLE I.D. MW1  
EXTRACTION SOLVENT HELIUM GAS/WATER  
EXTRACTION METHOD EPA 5030B  
DILUTION FACTOR (DF) NONE (15 MLs PURGED)

COMPOUND	CRDL	MB	RESULT
<u>1,1,2,2-TETRACHLOROETHANE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>TETRACHLOROETHENE (PCE)</u>	<u>0.5</u>	<u>ND</u>	<u>182</u>
<u>TOLUENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,2,3-TRICHLOROBENZENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,2,4-TRICHLOROBENZENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,1,1-TRICHLOROETHANE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,1,2-TRICHLOROETHANE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>TRICHLOROETHENE (TCE)</u>	<u>0.5</u>	<u>ND</u>	<u>164</u>
<u>TRICHLOROFLUOROMETHANE</u>	<u>0.5</u>	<u>ND</u>	<u>13.2</u>
<u>1,2,3-TRICHLOROPROPANE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,2,4-TRIMETHYLBENZENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,3,5-TRIMETHYLBENZENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>VINYL CHLORIDE</u>	<u>0.5</u>	<u>ND</u>	<u>3.50</u>
<u>M,P-XYLENE</u>	<u>1.0</u>	<u>ND</u>	<u>ND</u>
<u>O-XYLENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>

uG/L = MICROGRAM PER LITER = PPB  
CRDL = CONTRACT REQUIRED DETECTION LIMIT  
MB = METHOD BLANK  
ND = NON DETECTED OR BELOW THE CRDL

DATA APPROVED BY: \_\_\_\_\_

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: µG/L (PPB)  
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 09/23/11

DATE RECEIVED: 09/23/11

DATE ANALYZED 09/22/11  
DATE EXTRACTED 09/23/11  
LAB SAMPLE I.D. 110072-42  
CLIENT SAMPLE I.D. MW2  
EXTRACTION SOLVENT HELIUM DRY WATER  
EXTRACTION METHOD EPA 8260B  
DILUTION FACTOR (DF) ND 5 MLs PURGED;

COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	NI	ND
BENZENE	0.5	NI	ND
BROMOBENZENE	0.5	NI	ND
BROMOCHLOROMETHANE	0.5	NI	ND
BROMODICHLOROMETHANE	0.5	NI	ND
BROMOFORM	0.5	NI	ND
BROMOMETHANE	0.5	NI	ND
2-BUTANONE (MEK)	2.0	NI	ND
N-BUTYLBENZENE	0.5	NI	ND
SEC-BUTYLBENZENE	0.5	NI	ND
TERT-BUTYLBENZENE	0.5	NI	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	ND
CHLOROMETHANE	0.5	NI	ND
2-CHLOROTOLUENE	0.5	NI	ND
4-CHLOROTOLUENE	0.5	NI	ND
DIBROMOCHLOROMETHANE	0.5	NI	ND
1,1-DIBROMOETHANE	0.5	NI	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	NI	ND
1,2-DICHLOROBENZENE	0.5	NI	ND
1,3-DICHLOROBENZENE	0.5	NI	ND
1,4-DICHLOROBENZENE	0.5	NI	ND

CONTINUED

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LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: µG/L (PPB)  
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
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DATE SAMPLED: 09/23/11 DATE RECEIVED: 09/23/11

DATE ANALYZED 09/23/11  
DATE EXTRACTED 09/23/11  
LAB SAMPLE I.D. 11100-42  
CLIENT SAMPLE I.D. MW2  
EXTRACTION SOLVENT HELIUM GAS/WATER  
EXTRACTION METHOD EPA 5040B  
DILUTION FACTOR (DF) NONE (10 ML) (0.100)

COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	28
CIS-1,2-DICHLOROETHENE	0.5	ND	100
TRANS-1,2-DICHLOROETHENE	0.5	ND	2.00
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	5.00
1,1-DICHLOROETHENE	0.5	ND	177
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

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LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT:  $\mu\text{G/L}$  (PPB)  
PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

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DATE ANALYZED 09/23/11  
DATE EXTRACTED 09/23/11  
LAB SAMPLE I.D. 110923-42  
CLIENT SAMPLE I.D. MW2  
EXTRACTION SOLVENT HELIUM GAS/WATER  
EXTRACTION METHOD EPA 5030B  
DILUTION FACTOR (DF) NONE (15 MLs PURGED)

COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCE)	0.5	ND	245 (DF=5)
TOLUENE	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROETHANE	0.5	ND	0.81
1,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	161
TRICHLOROFLUOROMETHANE	0.5	ND	21.3
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	4.01
M,P-XYLENE	1.0	ND	ND
O-XYLENE	0.5	ND	ND

$\mu\text{G/L}$  = MICROGRAM PER LITER = PPB

CRDL = CONTRACT REQUIRED DETECTION LIMIT

MB = METHOD BLANK

ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: \_\_\_\_\_

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LABORATORY REPORT

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DATE SAMPLED: 09/23/11

DATE RECEIVED: 09/23/11

DATE ANALYZED 09/23/11  
DATE EXTRACTED 09/23/11  
LAB SAMPLE I.D. 110923-43  
CLIENT SAMPLE I.D. MW3  
EXTRACTION SOLVENT HELIUM GAS WATER  
EXTRACTION METHOD EPA 5030B  
DILUTION FACTOR (DF) NONE (15 MIN SURGE)

COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
TERT-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	1.38
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

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LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L (PPB)  
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

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DATE SAMPLED: 09/23/11

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DATE ANALYZED 09/23/11  
DATE EXTRACTED 09/23/11  
LAB SAMPLE I.D. 11000447  
CLIENT SAMPLE I.D. MW3  
EXTRACTION SOLVENT HELIX GAS WATER  
EXTRACTION METHOD EPA 8260B  
DILUTION FACTOR (DF) 1000  
MOMENTUM (Ls) PURGED

COMPOUND	CRDL	MS	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	ND
CIS-1,2-DICHLOROETHENE	0.5	ND	ND
TRANS-1,2-DICHLOROETHENE	0.5	ND	ND
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	ND
1,1-DICHLOROETHENE	0.5	ND	ND
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

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LAB SAMPLE I.D. 110923-43
CLIENT SAMPLE I.D. MW3
EXTRACTION SOLVENT HELIUM GAS/WATER
EXTRACTION METHOD EPA 5030B
DILUTION FACTOR (DF) NONE (15 MLs PURGED)

Table with 4 columns: COMPOUND, CRDL, MB, RESULT. Lists various chemical compounds and their detection results.

uG/L = MICROGRAM PER LITER = PPB
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: \_\_\_\_\_